



SERVICE BULLETIN

***KODAK X-OMAT* Multiloader**

Eastman Kodak Company, Health Imaging, Rochester, New York 14650

SERVICE BULLETIN NO. 278

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3058 *KODAK X-OMAT* Multiloader 300

Scan Run Problems for the *KODAK X-OMAT* Multiloader 300

Starting with Serial Number 2000, a change has been made to the COUNTERWEIGHTS for the FILM POCKET. The COUNTERWEIGHTS now being installed are lighter than the old ones. The reason for the change was because there were problems with older units scanning in extremely high values after performing a scan run. Once these values are stored in the parameters, the Multiloader will not run. The reason this occurs is that after a period of time play develops in the GEARS due to wear. With the new WEIGHTS installed, the FILM POCKET is heavier than the WEIGHTS. This pulls all the weight in the direction of the FILM POCKET STEPPER MOTOR DRIVE ASSEMBLY and corrects the condition.

If you run into this condition on a unit with a serial number below 2000 you can accomplish a good scan run by putting some weight, such as a pair of pliers, on the FILM POCKET while performing the scan run. However, this is only a temporary fix. To avoid this in the future, replace the COUNTERWEIGHTS with the new style.

Description	Part Number
Counterweight, right, 2310g	9215746
Counterweight, left, 1380g	9215756

The right and left orientation is based on viewing the Multiloader from the front.

Adjustment for DOUBLE FILM SENSOR for the **KODAK X-OMAT Multiloader 300, Serial Number 3000 and Above**

There is an error in the Service Manual, Publication Number SM3058-4, dated December, 1995. This is the supplement for serial number 3000 and above. On Page 2-3, Figure 2-3, test point 4 and test point 1 are reversed. When connecting the DIGITAL VOLTMETER to the A5 BOARD, test point 4 should be negative. The positive lead goes on the right side of RESISTOR R14. The same mistake is on the A5 CIRCUIT BOARD layout. On Page 4-5 of the Wiring Diagrams, Publication Number, WD3058, dated 9/93, test point 4 and test point 1 are shown reversed. Please make the corrections in your manuals.

Interchange the position of TP1 and TP4 in the following publications:

Publication	Page	Figure
SM5058-4	2-3	2-3
WD3058	4-5	

New KODAK EC-L Films

KODAK Multiloader 700.....EC-L Films cannot be used in the Multiloader 700

KODAK Multiloader 700 Plus.....EC-L Films can be used. However, be aware it is possible that the last film may not be detected in the magazine. The display may indicate the magazine is empty but the last film will be left inside. Additionally make sure the FILM PRESENCE DETECTORS are adjusted according to the procedure in the Service Manual.

KODAK X-OMAT Multiloader 300.....EC-L Films can be used. As with the MULTILOADER 700 Plus, the last film may not be detected in the magazine and will stay there.

Improved PRINTED CIRCUIT BOARD A10 for the **KODAK X-OMAT Multiloader 300**

Changes have been made to the PRINTED CIRCUIT BOARD A10 used in the Multiloader 300, the *KODAK* Miniloader 2000, and the *KODAK* Miniloader 2000P. Manufacturing will install the new BOARDS beginning with the following serial numbers.

Description	Serial Number
Multiloader 300.....	3368
Miniloader 2000.....	1026
Miniloader 2000P.....	5060

The New A10 BOARD, Part No. 9228620 will also include a new CODE DISK. This new CODE DISK has to be installed with the new BOARD. When you order the new BOARD the CODE DISK will be included. An old CODE DISK cannot be used with a new BOARD. If you have an old A10 BOARD, Part No. 9228600 or 9228610, they can still be used but they must be used in the units with the following serial numbers.

Description	Serial Number
Multiloader 300.....	3367 and below
Miniloader 2000.....	1025 and below
Miniloader 2000P.....	5059 and below

Instructions will be packaged with the BOARD.

Part Number Correction, OPENER ASSEMBLY

In the Parts List Change section of Newsletter No. 8, dated 2/95, the OPENER ASSEMBLY for serial number 2000 and above is incorrect. The correct Part Numbers for the OPENER ASSEMBLY are listed below.

Description	Serial No.	Part No.
OPENER ASSEMBLY	up to 1999	9222060
OPENER ASSEMBLY	2000 and above	9222076

CONVEYOR ROLLER MOTOR TIMING BELT Problem

Starting with serial number 2216, manufacturing made a change from black TIMING BELTS to amber BELTS. These 2 BELTS are driven by the M7 MOTOR. The teeth on the amber BELTS are not correct. A unit having these BELTS may transport films through the CONVEYOR too slowly. This may result in films being only partially transported into the UPPER INTERFACE FLAP, and the M7 MOTOR may also sound noisy or stall when running. If you have the amber BELTS, install 2 new BLACK TIMING BELTS, Part No. 9223151.

Part Numbers for the B59 DOUBLE FILM DETECTOR SENSOR

Make the following changes and addition regarding the DOUBLE FILM DETECTOR SENSOR in the Parts List for the *KODAK X-OMAT* Multiloader 300, Publication No. IP3058, dated 3/94. There are three part numbers for the B59 SENSOR depending on the serial number of the Multiloader 300.

Description	Serial No.	Part No.
B59 DOUBLE FILM DETECTOR SENSOR	2110 and below	9228960
B59 DOUBLE FILM DETECTOR SENSOR	2111 - 2999	9228961
B59 DOUBLE FILM DETECTOR SENSOR	3000 and above	9284026

KODAK MIN-R 2000 Film, Plus Density Artifacts

If you experience plus density artifacts on MIN-R 2000 films that are at the trailing edge of the film and are about 20 cm (8 inches) apart, check the O-RINGS on the FILM POCKET GUIDES. If they are black rubber O-RINGS, replace them with foam ROLLERS. The foam ROLLERS are already on the bottom GUIDE. Replace all of the top O-RINGS with the foam ROLLERS, Part No. 9184396.

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For More Information:

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